

**PRODUCTION OF LOW-MOLECULAR ALPHA-OLEFIN POLYMER**

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**Abstract of JP8239418**

**PURPOSE:** To obtain a process whereby a low-molecular  $\alpha$ -olefin polymer mainly comprising units derived from  $\alpha$ -olefins ranging from ethylene to 1-hexene is produced industrially advantageously at a high selectivity in a high yield while improving the properties of a polymer unavoidably produced as a by-product. **CONSTITUTION:** This low-molecular  $\alpha$ -olefin polymer is produced by using a catalyst system at least comprising a chromium compd., at least one compd. selected from among an amine, an amide, and an imide, an alkylaluminum compd., and a halogen compd. and by causing 0.1-15vol.% hydrogen to exist in the gas phase in a reactor.

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